FIGURE 1

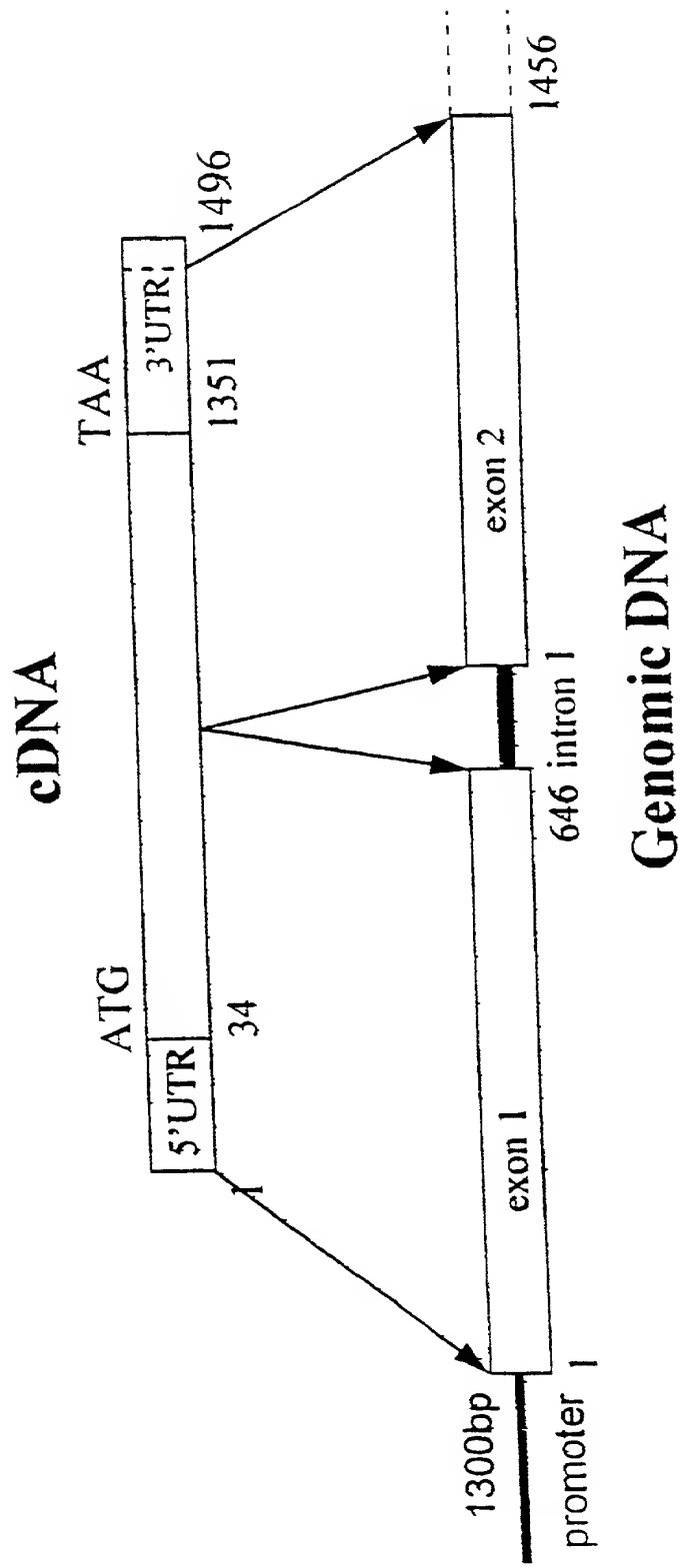

cDNA
Genomic DNA
ATG
TAA
5'UTR
3'UTR
34
1351
1496
1456
646 intron 1
exon 1
exon 2
1300bp
promoter
1

FIGURE 2

```
                          10          20          30          40          50
MOUSE-X1.DNA       1 ATGAGGCTTC CTGGTTGGTT GTGGCTGAGT TCTGCCGTCC TCGCTGCCTG      50
HUMAN-X1.DNA       1 ATGAAGCTGG CTAACTGGTA CTGGCTGAGC TCAGCTGTTC TTGCCACTTA      50
                          60          70          80          90         100
MOUSE-X1.DNA      51 CCGAGC---G GTGGAGGAGC ACAACCTGAC TGAGGGGCTG GAGGATGCCA     100
HUMAN-X1.DNA      51 CGGTTTTTTG GTTGTGGCAA ACAATGAAAC AGAGGAAATT AAAGATGAAA     100
                         110         120         130         140         150
MOUSE-X1.DNA     101 GCGCCCAGGC TGCCTGCCCC GCGAGGCTGG AGGGCAGCGG GAGGTGCGAG     150
HUMAN-X1.DNA     101 GAGCAAAGGA TGTCTGCCCA GTGAGACTAG AAAGCAGAGG GAAATGCGAA     150
                         160         170         180         190         200
MOUSE-X1.DNA     151 GGGA---GCC AGTGCCCCTT CCAGCTCACC CTGCCCACGC TGACCATCCA     200
HUMAN-X1.DNA     151 GAGGCAGGGG AGTGCCCCTA CCAGGTAAGC CTGCCCCCCT TGACTATTCA     200
                         210         220         230         240         250
MOUSE-X1.DNA     201 GCTCCCGCGG CAGCTTGGCA GCATGGAGGA GGTGCTCAAA GAAGTGCGGA     250
HUMAN-X1.DNA     201 GCTCCCGAAG CAATTCAGCA GGATCGAGGA GGTGTTCAAA GAAGTCCAAA     250
                         260         270         280         290         300
MOUSE-X1.DNA     251 CCCTCAAGGA AGCAGTGGAC AGTCTGAAGA AATCCTGCCA GGACTGTAAG     300
HUMAN-X1.DNA     251 ACCTCAAGGA AATCGTAAAT AGTCTAAAGA AATCTTGCCA AGACTGCAAG     300
                         310         320         330         340         350
MOUSE-X1.DNA     301 TTGCAGGCTG ACGACCATCG AGATCCCGGC GGGAATGGAG GG---------     350
HUMAN-X1.DNA     301 CTGCAGGCTG ATGACAACGG AGACCCAGGC AGAAACGGAC TGTTGTTACC     350
                         360         370         380         390         400
MOUSE-X1.DNA     351 -AAT---GGA GC---AGAGA CAGCCGAGGA CAGTAGAGTC CAGGAACTGG     400
HUMAN-X1.DNA     351 CAGTACAGGA GCCCCGGGAG AGGTTGGTGA TAACAGAGTT AGAGAATTAG     400
                         410         420         430         440         450
MOUSE-X1.DNA     401 AGAGTCAGGT GAACAAGCTG TCCTCAGAGC TGAAGAATGC AAAGGACCAG     450
HUMAN-X1.DNA     401 AGAGTGAGGT TAACAAGCTG TCCTCTGAGC TAAAGAATGC CAAAGAGGAG     450
                         460         470         480         490         500
MOUSE-X1.DNA     451 ATCCAGGGGC TGCAGGGGCG CCTGGAGACG CTCCATCTGG TAAATATGAA     500
HUMAN-X1.DNA     451 ATCAATGTAC TTCATGGTCG CCTGGAGAAG CTGAATCTTG TAAATATGAA     500
                         510         520         530         540         550
MOUSE-X1.DNA     501 CAACATTGAG AACTACGTGG ACAACAAAGT GGCAAATCTA ACCGTTGTGG     550
HUMAN-X1.DNA     501 CAACATAGAA AATTATGTTG ACAGCAAAGT GGCAAATCTA ACATTTGTTG     550
                         560         570         580         590         600
MOUSE-X1.DNA     551 TCAACAGTTT GGATGGCAAG TGTTCCAAGT GTCCCAGCCA AGAACACATG     600
HUMAN-X1.DNA     551 TCAATAGTTT GGATGGCAAA TGTTCAAAGT GTCCCAGCCA AGAACAAATA     600
                         610         620         630         640         650
MOUSE-X1.DNA     601 CAGTCACAGC CGG..... .......... .......... ..........     650
HUMAN-X1.DNA     601 CAGTCACGTC CAG..... .......... .......... ..........     650
```

FIGURE 3

```
                        10         20         30         40         50
MOUSE-X2.DNA          1 TTCAACATCT AATATACAAA GATTGTTCCG ACCACTACGT GCTAGGAAGG  50
HUMAN-X2.DNA          1 TTCAACATCT AATATATAAA GATTGCTCTG ACTACTACGC AATAGGCAAA  50
                        60         70         80         90        100
MOUSE-X2.DNA         51 AGAAGCAGTG GGGCCTACAG AGTTACCCCT GATCACAGAA ACAGCAGCTT 100
HUMAN-X2.DNA         51 AGAAGCAGTG AGACCTACAG AGTTACACCT GATCCCAAAA ATAGTAGCTT 100
                       110        120        130        140        150
MOUSE-X2.DNA        101 TGAGGTCTAC TGTGACATGG AGACCATGGG TGGAGGCTGG ACGGTGCTGC 150
HUMAN-X2.DNA        101 TGAAGTTTAC TGTGACATGG AGACCATGGG GGGAGGCTGG ACAGTGCTGC 150
                       160        170        180        190        200
MOUSE-X2.DNA        151 AGGCTCGCCT TGATGGCAGC ACCAACTTCA CCAGAGAGTG GAAAGACTAC 200
HUMAN-X2.DNA        151 AGGCACGTCT CGATGGGAGC ACCAACTTCA CCAGAACATG GCAAGACTAC 200
                       210        220        230        240        250
MOUSE-X2.DNA        201 AAAGCCGGCT TTGGAAACCT TGAACGAGAA TTTTGGTTGG GCAACGATAA 250
HUMAN-X2.DNA        201 AAAGCAGGCT TTGGAAACCT CAGAAGGGAA TTTTGGCTGG GGAACGATAA 250
                       260        270        280        290        300
MOUSE-X2.DNA        251 AATTCATCTT CTGACCAAGA GTAAGGAAAT GATTTTGAGA ATAGATCTTG 300
HUMAN-X2.DNA        251 AATTCATCTT CTGACCAAGA GTAAGGAAAT GATTCTGAGA ATAGATCTTG 300
                       310        320        330        340        350
MOUSE-X2.DNA        301 AAGACTTTAA TGGTCTCACA CTTTATGCCT TGTATGATCA GTTTTATGTG 350
HUMAN-X2.DNA        301 AAGACTTTAA TGGTGTCGAA CTATATGCCT TGTATGATCA GTTTTATGTG 350
                       360        370        380        390        400
MOUSE-X2.DNA        351 GCTAATGAAT TTCTCAAATA CCGATTACAC ATCGGTAACT ACAATGGCAC 400
HUMAN-X2.DNA        351 GCTAATGAGT TTCTCAAATA TCGTTTACAC GTTGGTAACT ATAATGGCAC 400
                       410        420        430        440        450
MOUSE-X2.DNA        401 GGCAGGGGAT GCCTTGCGTT TCAGTCGACA CTACAACCAT GACCTGAGGT 450
HUMAN-X2.DNA        401 AGCTGGAGAT GCATTACGTT TCAACAAACA TTACAACCAC GATCTGAAGT 450
                       460        470        480        490        500
MOUSE-X2.DNA        451 TTTTCACAAC CCCAGACAGA GACAACGATC GGTACCCCTC TGGGAACTGT 500
HUMAN-X2.DNA        451 TTTTCACCAC TCCAGATAAA GACAATGATC GATATCCTTC TGGGAACTGT 500
                       510        520        530        540        550
MOUSE-X2.DNA        501 GGGCTCTATT ACAGCTCAGG CTGGTGGTTT GATTCATGTC TCTCTGCCAA 550
HUMAN-X2.DNA        501 GGGCTGTACT ACAGTTCAGG CTGGTGGTTT GATGCATGTC TTTCTGCAAA 550
                       560        570        580        590        600
MOUSE-X2.DNA        551 CTTAAATGGC AAATATTACC ACCAGAAATA CAAAGGTGTC CGTAATGGGA 600
HUMAN-X2.DNA        551 CTTAAATGGC AAATATTATC ACCAAAAATA CAGAGGTGTC CGTAATGGGA 600
                       610        620        630        640        650
MOUSE-X2.DNA        601 TTTTCTGGGG CACCTGGCCT GGTATAAACC AGGCACAGCC AGGTGGCTAC 650
HUMAN-X2.DNA        601 TTTTCTGGGG TACCTGGCCT GGTGTAAGTG AGGCACACCC TGGTGGCTAC 650
                       660        670        680        690        700
MOUSE-X2.DNA        651 AAGTCCTCCT TCAAACAGGC CAAGATGATG ATTAGGCCCA AGAATTTCAA 700
HUMAN-X2.DNA        651 AAGTCCTCCT TCAAAGAGGC TAAGATGATG ATCAGACCCA AGCACTTTAA 700
                       710        720        730        740        750
MOUSE-X2.DNA        701 GCCATAA... .......... .......... .......... .......... 750
HUMAN-X2.DNA        701 GCCATAA... .......... .......... .......... .......... 750
```

```
        10          20          30          40          50          60
ATCACTCTGT TCATTCCTCC AGGTATTCGT TATCTAATAG GGCAATTAAT TCCTTCAGCA
        70          80          90         100         110         120
CTTTAGAATA TGCCTTGTTT CATATTTTTC ATAGCTAAAA AATGCCTTGT TTCATATTTT
       130         140         150         160         170         180
TCATAGCTAA AAAATGATGT CTGACGGCTA GGTTCTTATG CTACACAGCA TTTGAAATAA
       190         200         210         220         230         240
AGCTGAAAAA CAATGCATTT TAAAGGAGTC CTTTGTTGTT ATGCTGTTAT CCAATGAACA
       250         260         270         280         290         300
CTTGCAAGCA ATTAGCAATA TTGAGAATTA TACATTAGAT TTACAATTCT TTTAATTTCT
       310         320         330         340         350         360
ATTGAAACTT TTTCTATTGC TTGTATTACT TGCTGTATTT AAAAAATAAT TGTTGGCTGG
       370         380         390         400         410         420
GTGTGGTAGC TCACGCCTGT AATNCCAGCA CTTTGGAATG TCAAGGCAGG CAGATCACTT
       430         440         450         460         470         480
GAGGTCAGGA GTTTGAGACC AGCCTGGCCA AACATGTGAA ACGCTGTNTN TATTAAAAAT
       490         500         510         520         530         540
ACAAAAATTA GCCGGGCATG GTGGNACATG CCTGTAATCC TAGNTACTTG GGAGGCTGAG
       550         560         570         580         590         600
GCAGGAGAAT CGCTTGAACC TGAGAGGAAG AGGTTGCAGT GAGCCAAGAA TGAGCCACTG
       610         620         630         640         650         660
CACTCCAGCA TGGGTGACAG AGAAAACTCT GTCTCAAACA AAAAAATAAT AAAATTTATT
       670         680         690         700         710         720
CAGTAGGNTG GATTCTACAC AAAGTAATCT GTATTTGGGC CATGATTTAA GCACATCTGA
       730         740         750         760         770         780
AGGTATATCA CTCTTTTCAG GCTATAATTA TTTGGGTAAT CTTCATTCTG AGACAAACTT
       790         800         810         820         830         840
AATCTATATC ATTTACTTTG CAACAGAACA ACCCTACAGC ATTTTGGTTC CCAGACTAAG
       850         860         870         880         890         900
GGAACTAATA TCTATATAAT TAAACTTGTT CATTTATCAT TCATGAAATA TAAAATTCTT
       910         920         930         940         950         960
GTCATTTAAA CCGTTTAAAA ATGTGGTAGC ATAATGTCAC CCCAAAAAGC ATTCAGAAAG
       970         980         990        1000        1010        1020
CAATGTAACT GTGAAGACCA GGGTTTAAAG GTAATTCATT TATAGTTTAT AACTCCTTAG
      1030        1040        1050        1060        1070        1080
ATGTTTGATG TTGAAAACTG CTTTAACATG AA..... ..........  ..........
```

3'UTR of hfgl2. The A at position 1 corresponds to position 1354 on the cDNA.

FIGURE 4

FIGURE 5

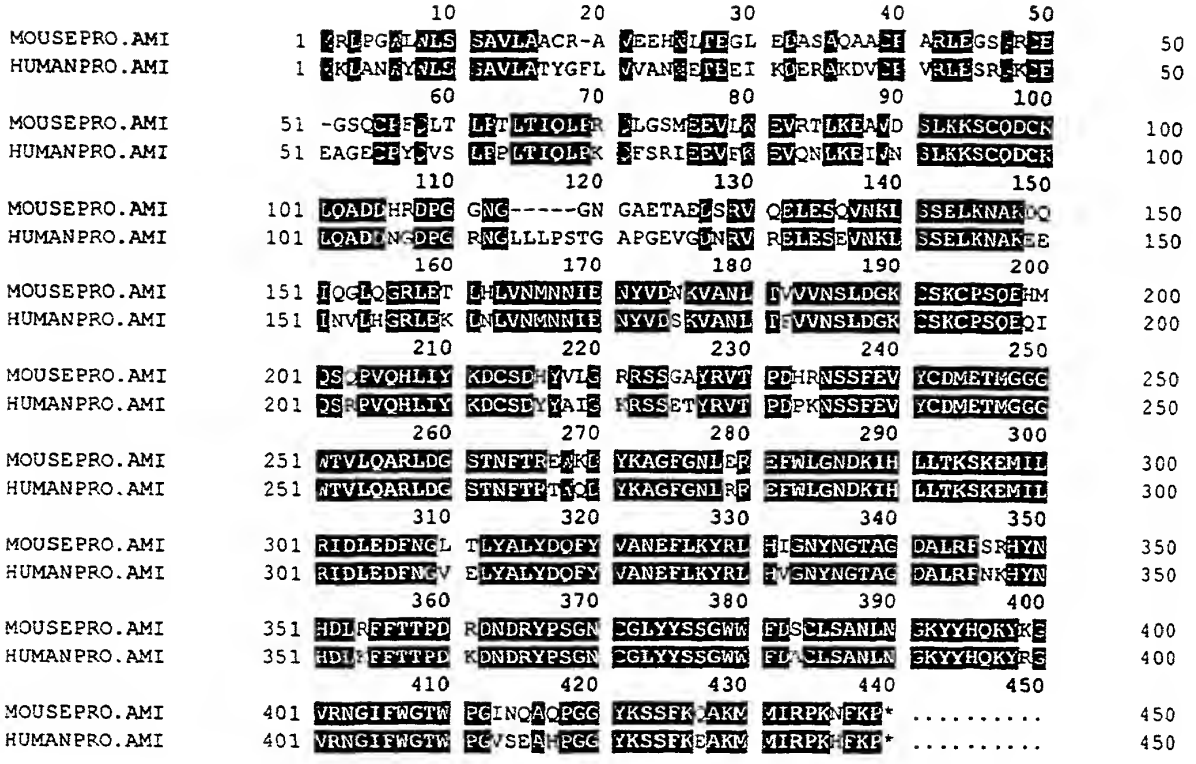


FIGURE 6

```
                        10         20         30         40         50
MOUSEPRO.AMI     1 MRLPGWLWLS SAVLAACR-A VEEHNLTEGL EDASAQAACP ARLEGSGRCE   50
HUMANPRO.AMI     1 MKLANWYWLS SAVLATYGFL VVANNETEEI KDERAKDVCP VRLESRGKCE   50
                        60         70         80         90        100
MOUSEPRO.AMI    51 -GSQCPFQLT LPTLTIQLPR QLGSMEEVLK EVRTLKEAVD SLKKSCQDCK  100
HUMANPRO.AMI    51 EAGECPYQVS LPPLTIQLPK QFSRIEEVFK EVQNLKEIVN SLKKSCQDCK  100
                       110        120        130        140        150
MOUSEPRO.AMI   101 LQADDHRDPG GNG-----GN GAETAEDSRV QELESQVNKL SSELKNAKDQ  150
HUMANPRO.AMI   101 LQADDNGDPG RNGLLLPSTG APGEVGDNRV RELESEVNKL SSELKNAKEE  150
                       160        170        180        190        200
MOUSEPRO.AMI   151 IQGLQGRLET LHLVNMNNIE NYVDNKVANL TVVVNSLDGK CSKCPSQEHM  200
HUMANPRO.AMI   151 INVLHGRLEK LNLVNMNNIE NYVDSKVANL TFVVNSLDGK CSKCPSQEQI  200
                       210        220        230        240        250
MOUSEPRO.AMI   201 QSQPVQHLIY KDCSDHYVLG RRSSGAYRVT PDHRNSSFEV YCDMETMGGG  250
HUMANPRO.AMI   201 QSRPVQHLIY KDCSDYYAIG KRSSETYRVT PDPKNSSFEV YCDMETMGGG  250
                       260        270        280        290        300
MOUSEPRO.AMI   251 WTVLQARLDG STNFTREWKD YKAGFGNLER EFWLGNDKIH LLTKSKEMIL  300
HUMANPRO.AMI   251 WTVLQARLDG STNFTRTWQD YKAGFGNLRR EFWLGNDKIH LLTKSKEMIL  300
                       310        320        330        340        350
MOUSEPRO.AMI   301 RIDLEDFNGL TLYALYDQFY VANEFLKYRL HIGNYNGTAG DALRFSRHYN  350
HUMANPRO.AMI   301 RIDLEDFNGV ELYALYDQFY VANEFLKYRL HVGNYNGTAG DALRFNKHYN  350
                       360        370        380        390        400
MOUSEPRO.AMI   351 HDLRFFTTPD RDNDRYPSGN CGLYYSSGWW FDSCLSANLN GKYYHQKYKG  400
HUMANPRO.AMI   351 HDLKFFTTPD KDNDRYPSGN CGLYYSSGWW FDACLSANLN GKYYHQKYRG  400
                       410        420        430        440        450
MOUSEPRO.AMI   401 VRNGIFWGTW PGINQAQPGG YKSSFKQAKM MIRPKNFKP* .........  450
HUMANPRO.AMI   401 VRNGIFWGTW PGVSEAHPGG YKSSFKEAKM MIRPKHFKP* .........  450
```

FIGURE 7

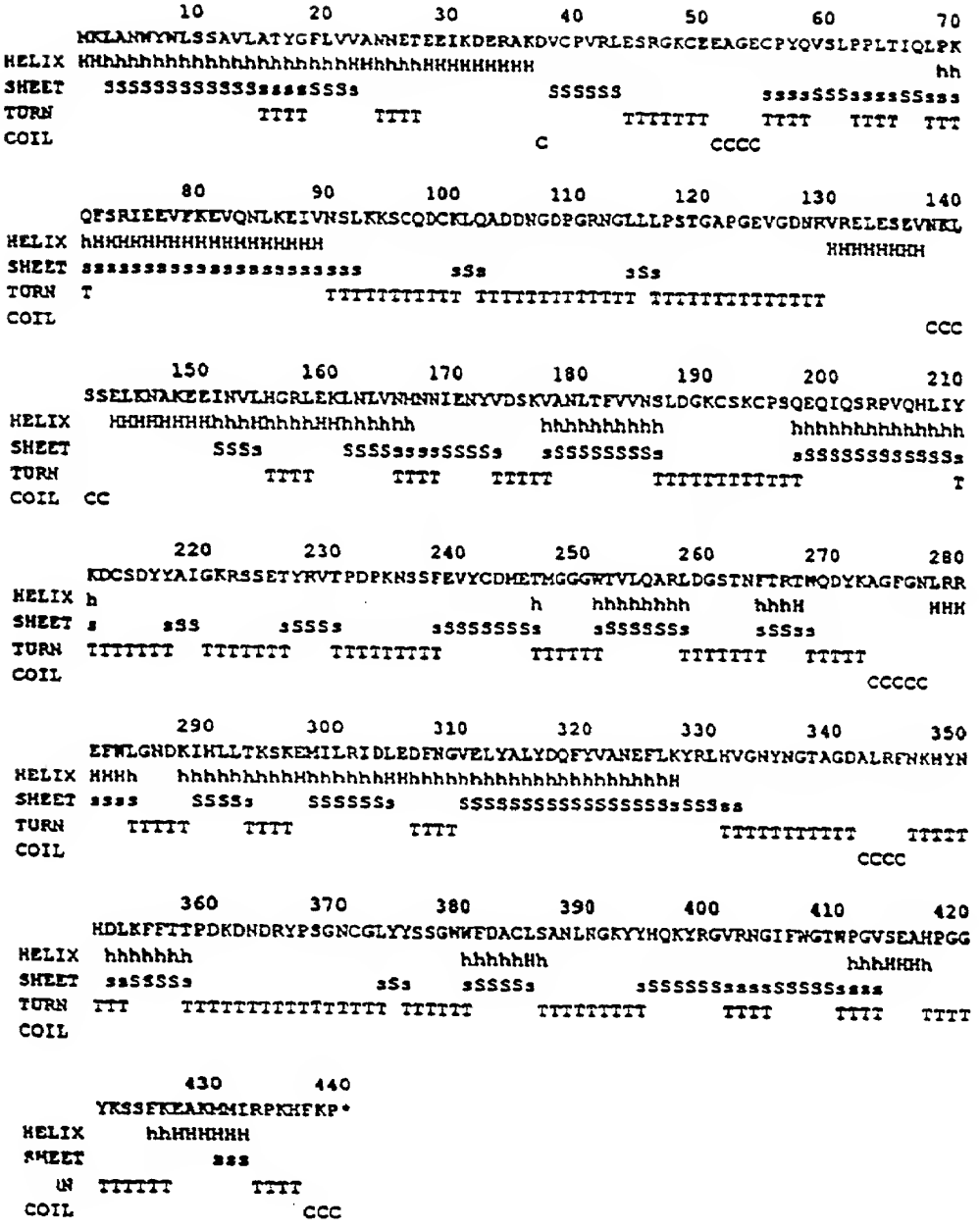

10 20 30 40 50 60 70
HELIX
SHEET
TURN
COIL
80 90 100 110 120 130 140
HELIX
SHEET
TURN
COIL
150 160 170 180 190 200 210
HELIX
SHEET
TURN
COIL
220 230 240 250 260 270 280
HELIX
SHEET
TURN
COIL
290 300 310 320 330 340 350
HELIX
SHEET
TURN
COIL
360 370 380 390 400 410 420
HELIX
SHEET
TURN
COIL
430 440
HELIX
SHEET
TURN
COIL

FIGURE 8

```
                    10         20         30         40         50
MOUSEPRO.DNA      1 TCGGTTTGGA TATCATGGGA TG-GAATGAG AAGGGA-AAG TAGGAGCCCG      50
HUMANPRO.DNA      1 TAGGGTTGGA AGCCAGGTCT CCTGAGTATG CGAGAATAAA TACAGTCATG      50
                    60         70         80         90        100
MOUSEPRO.DNA     51 AGAGTGCGGT AAGACAA--G GCATAAGGCG TGTCTGACAA ATTCTTCATA     100
HUMANPRO.DNA     51 GAAGTGTAAA GAGTCTGCCA ACATTTTGAG AATGTGAATA GGATTTGGC-     100
                   110        120        130        140        150
MOUSEPRO.DNA    101 CACACATTTC CCCTTTGCAC ATTCAGTCTG TATAGGTTAT TTCTATAGGA     150
HUMANPRO.DNA    101 TA-AAATTAA GGGGATATAC AGAAAAGTCA TAGGAAATCA GGTTAAAGAC     150
                   160        170        180        190        200
MOUSEPRO.DNA    151 GAAAAAAAAT ATTCAAATTC CTTGTGCACT G-GTAACAGG CATGAAGGCT     200
HUMANPRO.DNA    151 ATAAATATGA GATAGGCTAC AGAGTGTTTT AAGTAATACA ATAAAACATT     200
                   210        220        230        240        250
MOUSEPRO.DNA    201 CAGCAAAGCC AATACGTGTT ATGTCCAGTT GGAGACAGTG CCAGGGCCAA     250
HUMANPRO.DNA    201 TAG--ATTTT TGCCCATGTC A-GTCATTTT GAAATTATTT TTAAAGCAAA     250
                   260        270        280        290        300
MOUSEPRO.DNA    251 CATTCCAGAC TTCTCAGATA GAAAGTGCGC CTGCCTGCCC -TGCTCTGAG     300
HUMANPRO.DNA    251 AAAACC---C TTTTTAAACA AGAAATCTTA TGAGATGTCA ATATGCAAAA     300
                   310        320        330        340        350
MOUSEPRO.DNA    301 --AATTTGAA GAGAGTAGTT C----AGTTA GAATTAAGAG GCAGTAGAGA     350
HUMANPRO.DNA    301 CAAATTAAAA GGAGGTGGTT TCTCTAACTG AAGCTGTTCC TCTTTCCTGC     350
                   360        370        380        390        400
MOUSEPRO.DNA    351 AA--AGTCTT GGGAAATCTG GTTAGAGA-- TATAAATATG AGAACTGGAC     400
HUMANPRO.DNA    351 CTTCAGCCTC TGAAGAGAAA GTTAGAAAAC TATTATCATT AATGCTACAT     400
                   410        420        430        440        450
MOUSEPRO.DNA    401 ATGGTGGTAC ACACCTGTGA TCTCTGTGTT TAGGAGGGAG AGGCAGAGAG     450
HUMANPRO.DNA    401 GTTTTGA-AC AAGCTGATAT ACCAAGTGGC CCAGAGAGC- AGGTAGAAGA     450
                   460        470        480        490        500
MOUSEPRO.DNA    451 ATCAGGAGTT CAAGGCCAGC CTGAGCTACT TGAGACCCAG TCTAAATAAA     500
HUMANPRO.DNA    451 ACCAGCG--- TGGAGACAGA --AAGCAA-- -GAGGCCC-G CCTGCCAGGG     500
                   510        520        530        540        550
MOUSEPRO.DNA    501 TAAGAGATAG ATTACAGAGT GCCTTTAACT AGTACAGAGA AAGAATTTGG     550
HUMANPRO.DNA    501 CTACCTGCAG AA-AGAAAGG GCAAAGATGC TGTAGGCAAG AGAAGTTCAG     550
                   560        570        580        590        600
MOUSEPRO.DNA    551 GTTTATCTGT GTCAGTTACG CTGAAATAAT TTTTAAGTAA TAAAATCCCT     600
HUMANPRO.DNA    551 GACAGACACT GGCA--TA-G CTCAAA-GAT TCACATTTGA GCAG-----C     600
                   610        620        630        640        650
MOUSEPRO.DNA    601 TTTAATAAGA AACCTTATGA G-GTCAGTAT GCACAATGAA CTTAAGAGAG     650
HUMANPRO.DNA    601 TGTGGAAGAT GACAGTACAA TTACCAAAAT GT-CGAAGGG C--AAAGGAG     650
                   660        670        680        690        700
MOUSEPRO.DNA    651 ACCCCCAGCT CCTGAGCTGA GTGATGGGGA AGGACAGCCA CTGCCTGTGA     700
HUMANPRO.DNA    651 GC----AGCT ACTGGTTT-- -TGATG---A AAGACAATTA TGTCCTTT--     700
                   710        720        730        740        750
MOUSEPRO.DNA    701 TGTGTGAGTG ACGTGCTTCC AAGTGTTTTA ACCACTGACG ATTACATAGC     750
HUMANPRO.DNA    701 TAAATGGGTC TTAGACATTT AGACATTTAT AT-AC--ACT ATGCTACGGA     750
                   760        770        780        790        800
MOUSEPRO.DNA    751 CTGCACAGTC AGGAGAAAAC AGCCGTATTC TCTGCCAGTT CTCTTCCCTT     800
HUMANPRO.DNA    751 CAAAGGAAT- AGAAAGTAGC A-CTTTTTTC TCCACTAGTT TTCTTCTCTT     800
                   810        820        830        840        850
MOUSEPRO.DNA    801 TTACAAACAG ATGAGAGACA CACACAGAGA ATCCATTTAA AGAGCGGACC     850
HUMANPRO.DNA    801 TTTCAAGTAG ATGAAGCAAA AGT-CAACTG CAATAGTCAG AAAGCTGTAC     850
                   860        870        880        890        900
```

FIGURE 8 cont'd

```
MOUSEPRO.DNA     851 TTTGTTCTGA TTAGGGGCAA TTTTAAGTAC TTAAGAGTTC ACACAAAGTC  900
HUMANPRO.DNA     851 TTTGTTACAC TTAGAAACTT CTAAAAGTGC TTAAGATTTC ACCTGAAAGT  900
                         910        920        930        940        950
MOUSEPRO.DNA     901 TAGCCTTCAA AAAGAAAACA GGTTCCCAAA ----CTA--- -GGGAGGAAA  950
HUMANPRO.DNA     901 CCAACAT-GA AGAAAATACA GGCTCCCCAA TGCCCCATTC TAAGAAGAAA  950
                         960        970        980        990       1000
MOUSEPRO.DNA     951 CAGAATCATT TCCATTTTGG TGACATTTA- GTGGGAAGAA GCTCACAGAC  1000
HUMANPRO.DNA     951 AAGGACCATT TTCATTTTAG TAACGTTTCT GTTCTATAGA CAGTTTGGAT  1000
                        1010       1020       1030       1040       1050
MOUSEPRO.DNA    1001 ATTTAGACGT TCCAACTCTT TCCCCACTAG TG-------G ACCAAGT-AT  1050
HUMANPRO.DNA    1001 AACTAGCTCT TACTTTTTAT CTTTAAAAAC TGTTTTTCCA GTGAAGTTAC  1050
                        1060       1070       1080       1090       1100
MOUSEPRO.DNA    1051 ATAATATGGT ATCTTTTGGG CACTGGTATT ACAA-CTGTT TTTTAAACAA  1100
HUMANPRO.DNA    1051 GTATAATTAT TTACTTCAAG CG-TAGTATA CCAAATTACT TTAGAAATGC  1100
                        1110       1120       1130       1140       1150
MOUSEPRO.DNA    1101 AAGACTTTCC TTGTGCTTTA CTAAAAAC-C CA-GACGGTG AATCTTGAAT  1150
HUMANPRO.DNA    1101 AAGACTTTTC TTATACTTCA TAAAATACAT TATGAAAGTG AATCTTG--T  1150
                        1160       1170       1180       1190       1200
MOUSEPRO.DNA    1151 ACAATGCGTG GCACCCACGG CAGGCATTCT ATTGTGCATA GTTTTGACTG  1200
HUMANPRO.DNA    1151 TGGCTGTGTA CATTTGACTA TAATAATTTC AATGCATATT ATTTCTATTG  1200
                        1210       1220       1230       1240       1250
MOUSEPRO.DNA    1201 ACAGGAGATG ACAGCATTTG GCTGGCTGCG CTTGCTGAGG ACCCTCTCCT  1250
HUMANPRO.DNA    1201 AGAGTAAGTT ACAGTTTTTG GCAAACTGCG TTTGATGAGG GCTATCTCCT  1250
                        1260       1270       1280       1290       1300
MOUSEPRO.DNA    1251 CCTG-TGTG- GCGTCTGAGA CT-GTGATGC AAATGCGCCC GCCCTTTTCT  1300
HUMANPRO.DNA    1251 CTTCCTGTGC GTTTCTAAAA CTTGTGATGC AAACGCTCCC ACCCTTTCCT  1300
                        1310       1320       1330       1340       1350
MOUSEPRO.DNA    1301 GGGAACTCAG AACGCCTGAG TCAGGCGGCG GTGGCTATTA AAGCG-----  1350
HUMANPRO.DNA    1301 GGGAACACAG AAAGCCTGAC TCAGGCCATG GCCGCTATTA AAGCAGCTCC  1350
                        1360       1370       1380       1390       1400
MOUSEPRO.DNA    1351 ---CCTGGTC AG-----GCT GGGCT-GCCG CACTGCAAGG ATG.......  1400
HUMANPRO.DNA    1351 AGCCCTGCGC ACTCCCTGCT GGGTGAGCAG CACTGTAAAG ATG.......  1400
```

FIGURE 9

```
        10         20         30         40         50
TAGGGTTGGAAGCCAGGTCTCCTGAGTATGCGAGAATAAATACAGTCATG
        60         70         80         90        100
GAAGTGTAAAGAGTCTGCCAACATTTTGAGAATGTGAATAGGATTTGGCT
       110        120        130        140        150
AAAATTAAGGGGATATACAGAAAAGTCATAGGAAATCAGGTTAAAGACAT
                          TCF1       PEA3
       160        170        180        190        200
AAATATGAGATAGGCTACAGAGTGTTTTAAGTAATACAATAAAACATTTA
        GATA1                 NF IL6
       210        220        230        240        250
GATTTTTGCCCATGTCAGTCATTTTGAAATTATTTTTAAAGCAAAAAAAC
                            NF IL6
       260        270        280        290        300
CCTTTTTAAACAAGAAATCTTATGAGATGTCAATATGCAAAACAAATTAA

       310        320        330        340        350
AAGGAGGTGGTTTCTCTAACTGAAGCTGTTCCTCTTTCCTGCCTTCAGCC
TCF1
       360        370        380        390        400
TCTGAAGAGAAAGTTAGAAAACTATTATCATTAATGCTACATGTTTTGAA
                          NF_E1
       410        420        430        440        450
CAAGCTGATATACCAAGTGGCCCAGAGAGCAGGTAGAAGAACCAGCGTGG
               bHLH
       460        470        480        490        500
AGACAGAAAGCAAGAGGCCCGCCTGCCAGGGCTACCTGCAGAAAGAAAGG
                                        NF IL6
       510        520        530        540        550
GCAAAGATGCTGTAGGCAAGAGAAGTTCAGGACAGACACTGGCATAGGTC
 TCF1
       560        570        580        590        600
AAAGATTCACATTTGAGCAGCTGTGGAAGATGACAGTACAATTACCAAAA
TCF1        bHLH   bHLH
                   E2A
       610        620        630        640        650
TGTCGAAGGGCAAAGGAGGCAGCTACTGGTTTTGATGAAAGACAATTATG
             TCF1                      NF IL6
       660        670        680        690        700
TCCTTTTAAATGGGTCTTAGACATTTAGACATTTATATACACTATGCTAC
       710        720        730        740        750
GGACAAAGGAATAGAAAGTAGCACTTTTTTCTCCACTAGTTTTCTTCTCT
   TCF1
       760        770        780        790        800
TTTTCAAGTAGATGAAGCAAAAGTCAACTGCAATAGTCAGAAAGCTGTAC
                   TCF1    bHLH
```

FIGURE 9 CONT'D

```
        810         820         830         840         850
TTTGTTACACTTAGAAACTTCTAAAAGTGCTTAAGATTTCACCTGAAACG
                            TCF1                bHLH
        860         870         880         890         900
CCAACATGAAGAAAATACAGGCTCCCCAATGCCCCATTCTAAGAAGAAAA
        910         920         930         940         950
AGGACCATTTTCATTTTAGTAACGTTTCTGTTCTATAGACAGTTTGGATA
        960         970         980         990        1000
ACTAGCTCTTACTTTTTATCTTTAAAAACTGTTTTTCCAGTGAAGTTACG
       1010        1020        1030        1040        1050
TATAATTATTTACTTCAAGCGTAGTATACCAAATTACTTTAGAAATGCAA
                                              NF IL6
       1060        1070        1080        1090        1100
GACTTTTCTTATACTTCATAAAATACATTATGAAAGTGAATCTTGTTGGC
                                  NF IL6
       1110        1120        1130        1140        1150
TGTGTACATTTGACTATAATAATTTCAATGCATATTATTTCTATTGAGAG
        bHLH
       1160        1170        1180        1190        1200
TAAGTTACAGTTTTTGGCAAACTGCGTTTGATGAGGGCTATCTCCTCTTC
       1210        1220        1230        1240        1250
CTGTGCGTTTCTAAAACTTGTGATGCAAACGCTCCCACCCTTTCCTGGGA
                     AABS
       1260        1270        1280        1290        1300
ACACAGAAACGCTGACTCAGGCACGTGCCGCTATTAAAGCAGCTCCAGCC
    +1       AP 1       bHLH       TATA box
       1310        1320        1330
CTGCGCACTCCCTGCTGGGTGAGCAGCACTGTAAAGATG
```

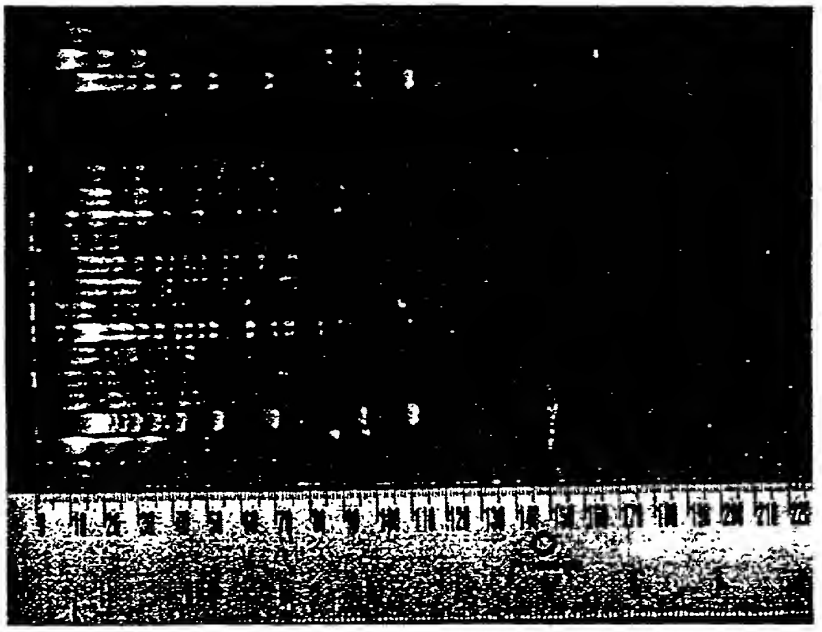


FIGURE 10B

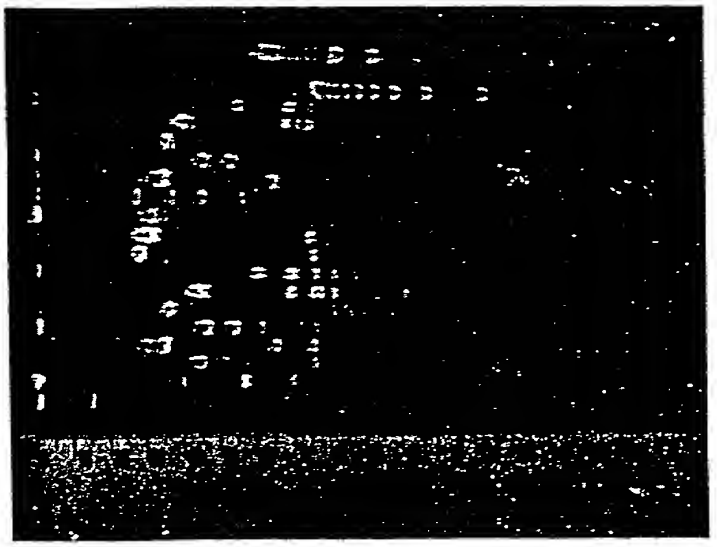


FIGURE 10A

FIGURE 11

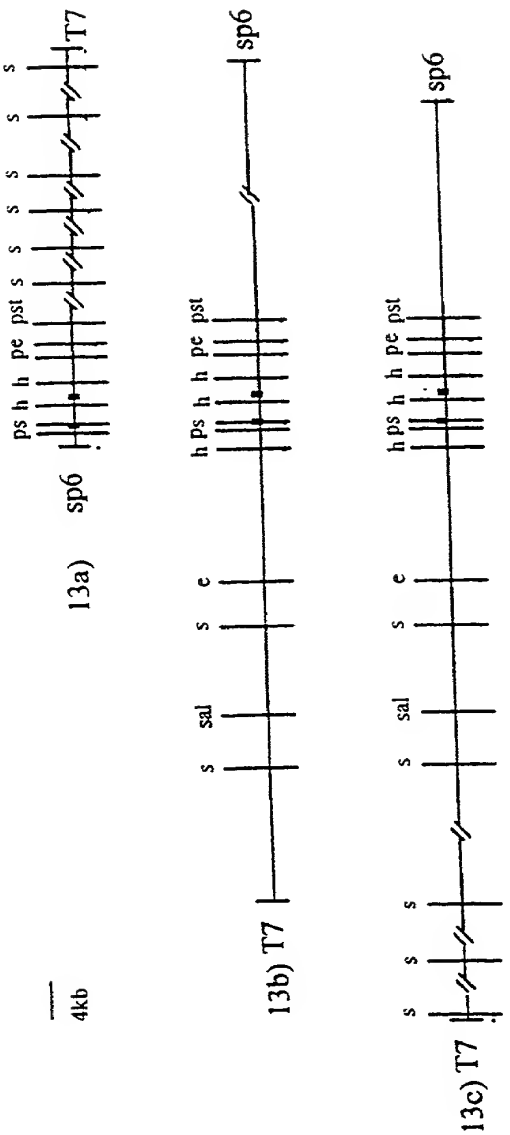

13a)
sp6
ps h h pe pst s s s s s T7
13b) T7
s sal s e h ps h h pe pst sp6
13c) T7
s s s s sal s e h ps h h pe pst sp6
4kb

FIGURE 12

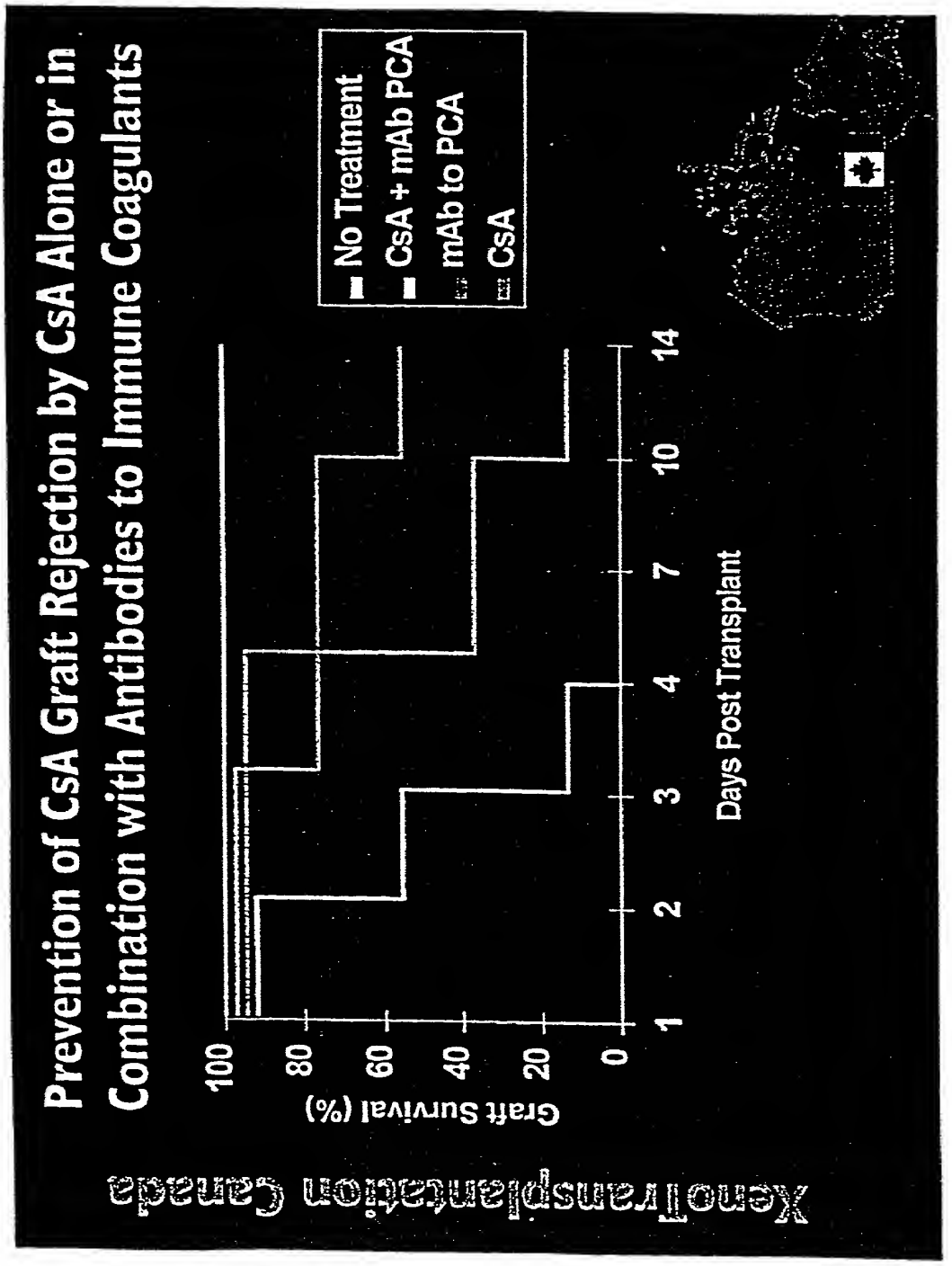

Prevention of CsA Graft Rejection by CsA Alone or in Combination with Antibodies to Immune Coagulants
Xenotransplantation Canada
Graft Survival (%)
100
80
60
40
20
0
1
2
3
4
7
10
14
Days Post Transplant
No Treatment
CsA + mAb PCA
mAb to PCA
CsA

FIGURE 13

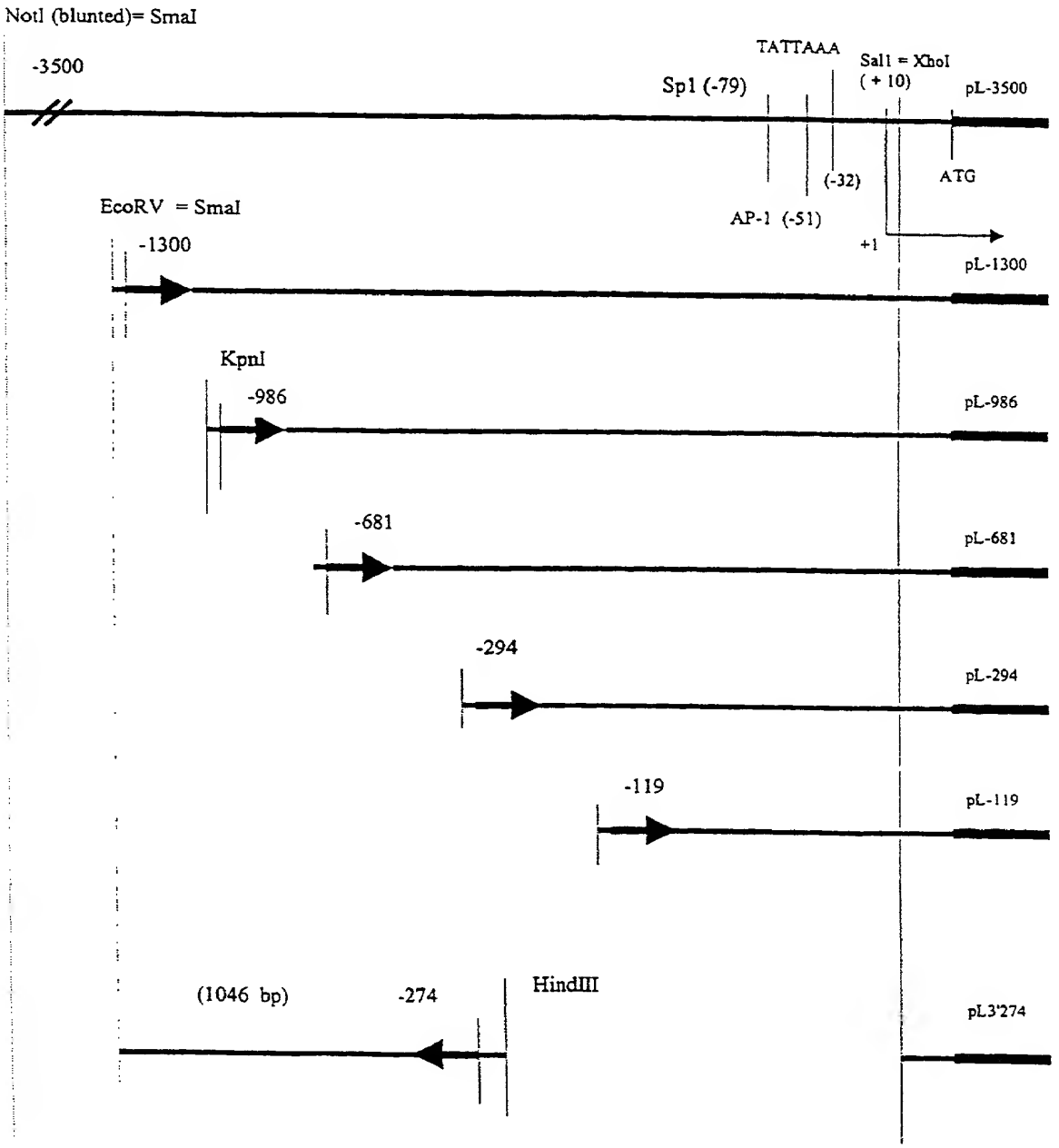

NotI (blunted)= SmaI
-3500
TATTAAA
SalI = XhoI
(+ 10)
Sp1 (-79)
pL-3500
(-32)
ATG
EcoRV = SmaI
AP-1 (-51)
-1300
+1
pL-1300
KpnI
-986
pL-986
-681
pL-681
-294
pL-294
-119
pL-119
(1046 bp)
-274
HindIII
pL3'274

FIGURE 14

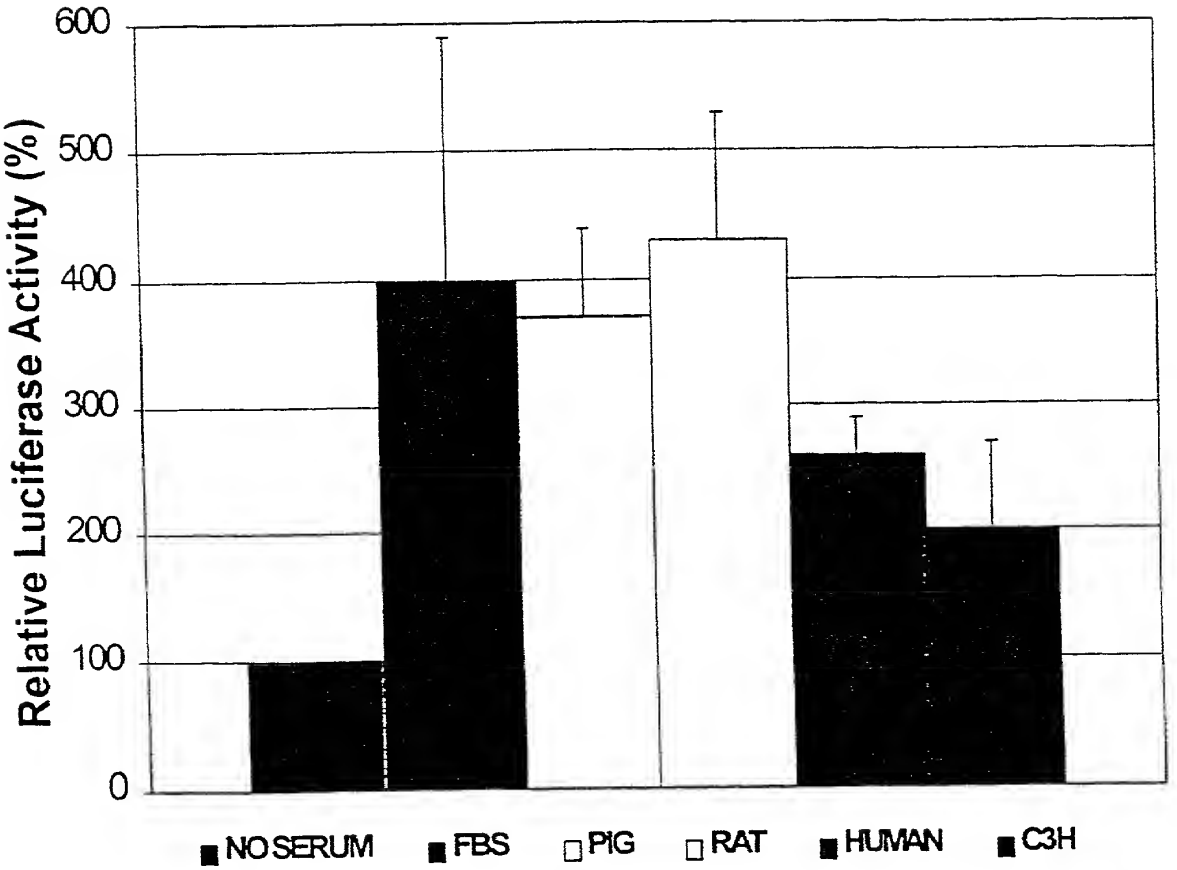

600
500
400
300
200
100
0
Relative Luciferase Activity (%)
NO SERUM
FBS
PIG
RAT
HUMAN
C3H

FIGURE 15

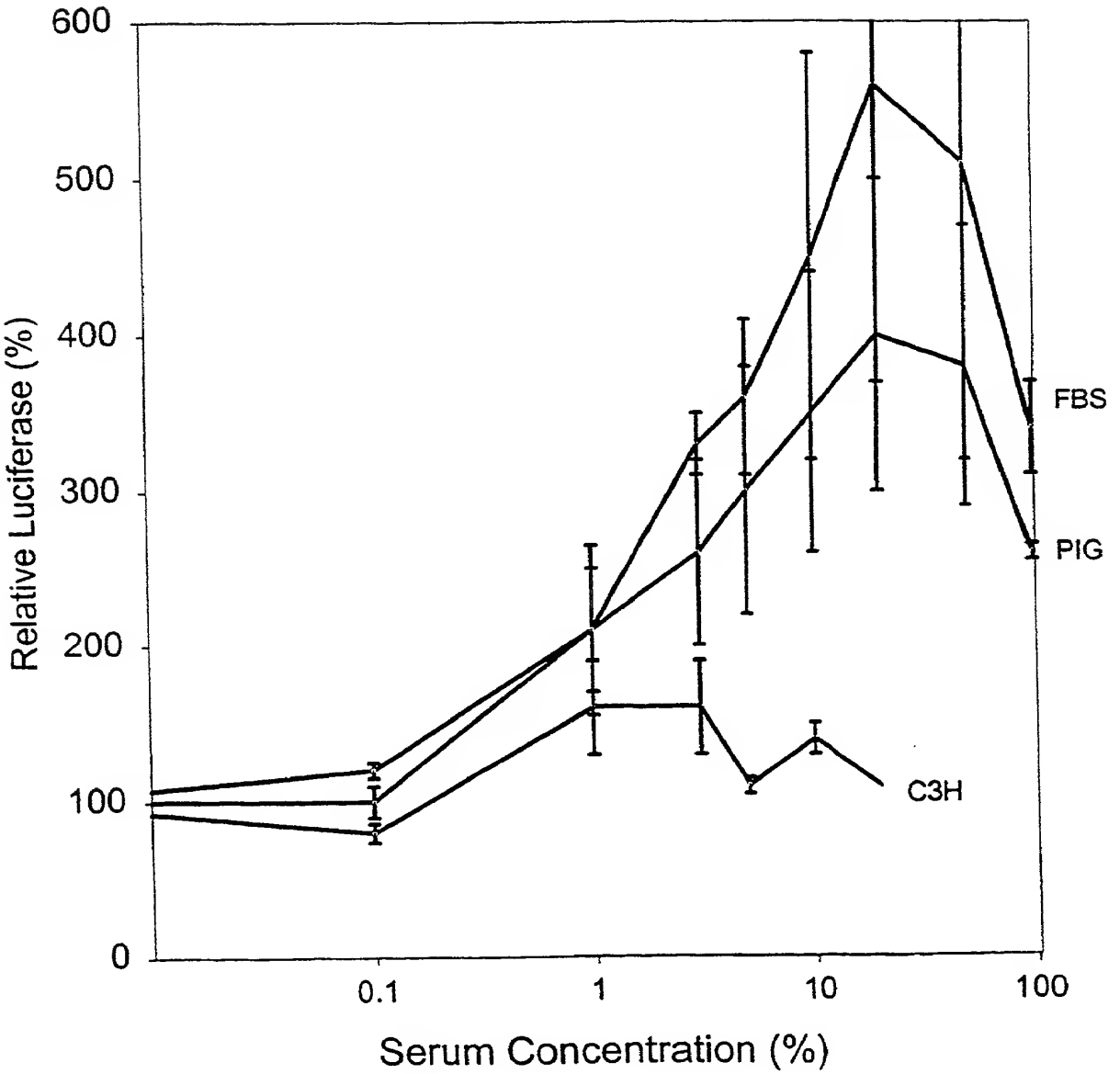

600
500
400
300
200
100
0
Relative Luciferase (%)
0.1
1
10
100
Serum Concentration (%)
FBS
PIG
C3H

FIGURE 16

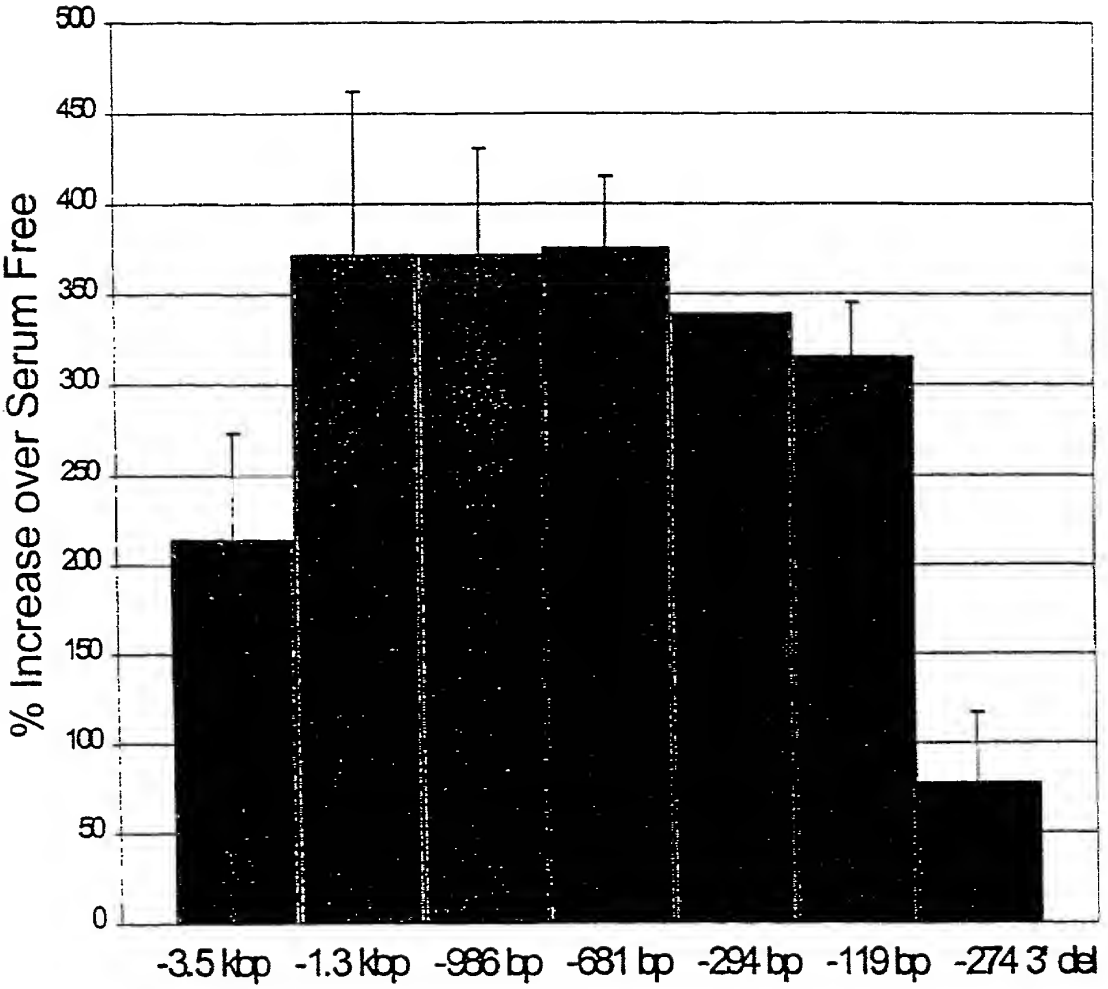
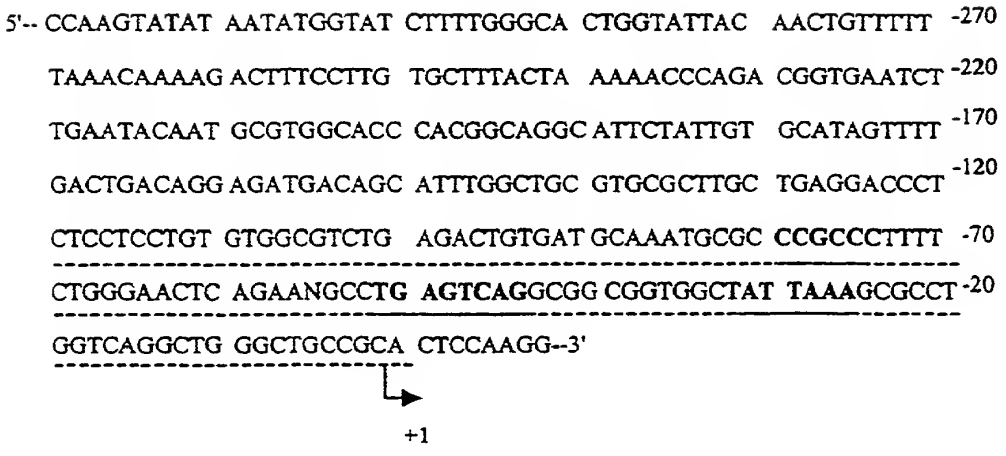

% Increase over Serum Free
500
450
400
350
300
250
200
150
100
50
0
-3.5 kbp
-1.3 kbp
-986 bp
-681 bp
-294 bp
-119 bp
-274 3' del

FIGURE 17


5'-- CCAAGTATAT AATATGGTAT CTTTTGGGCA CTGGTATTAC AACTGTTTTT -270
TAAACAAAAG ACTTTCCTTG TGCTTTACTA AAAACCCAGA CGGTGAATCT -220
TGAATACAAT GCGTGGCACC CACGGCAGGC ATTCTATTGT GCATAGTTTT -170
GACTGACAGG AGATGACAGC ATTTGGCTGC GTGCGCTTGC TGAGGACCCT -120
CTCCTCCTGT GTGGCGTCTG AGACTGTGAT GCAAATGCGC CCGCCCTTTT -70
CTGGGAACTC AGAANGCCTG AGTCAGGCGG CGGTGGCTAT TAAAGCGCCT -20
GGTCAGGCTG GGCTGCCGCA CTCCAAGG--3'
+1

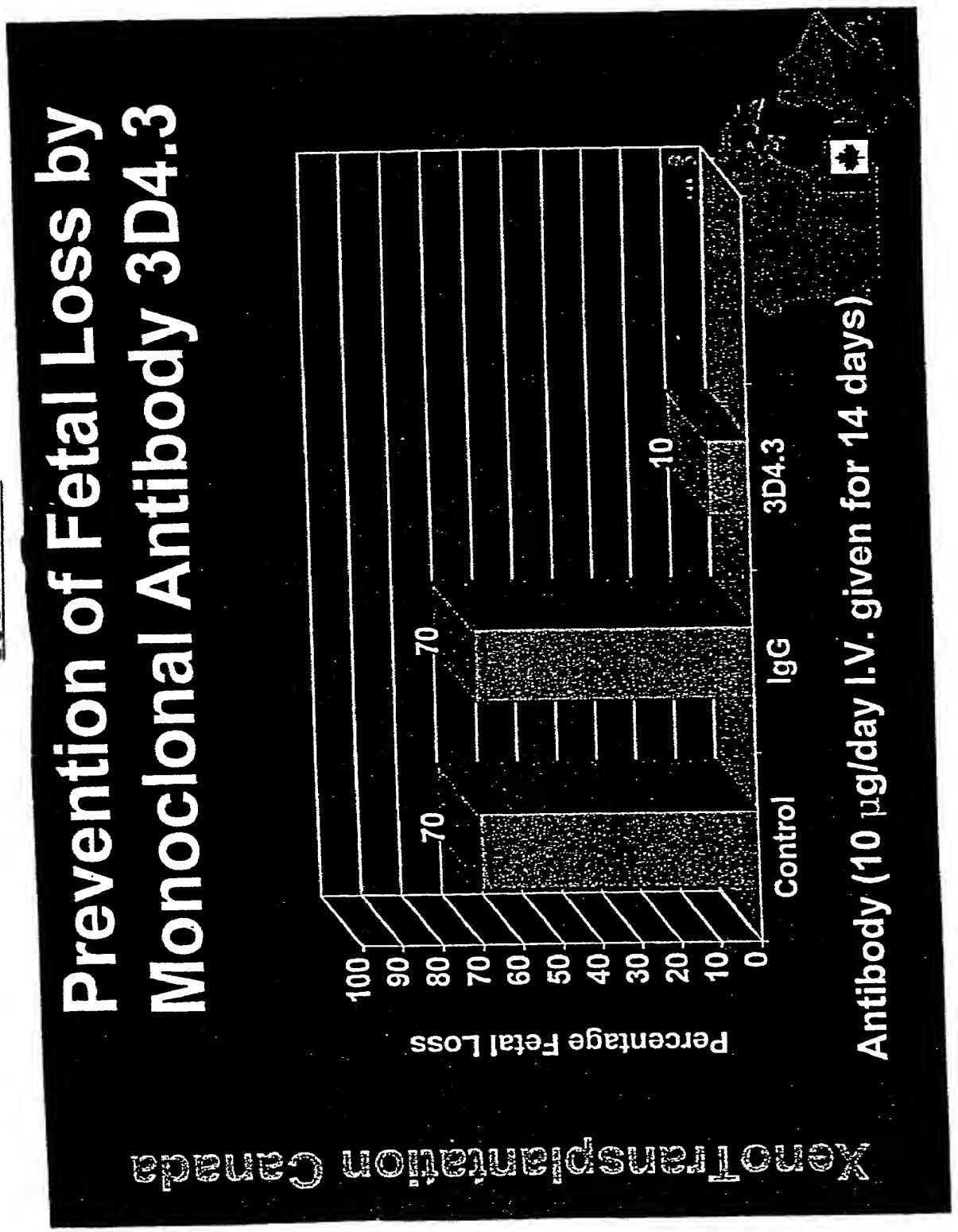

Prevention of Fetal Loss by Monoclonal Antibody 3D4.3
XenoTransplantation Canada
Percentage Fetal Loss
0
10
20
30
40
50
60
70
80
90
100
70
70
10
Control
IgG
3D4.3
Antibody (10 µg/day I.V. given for 14 days)

FIGURE 18

FIGURE 19

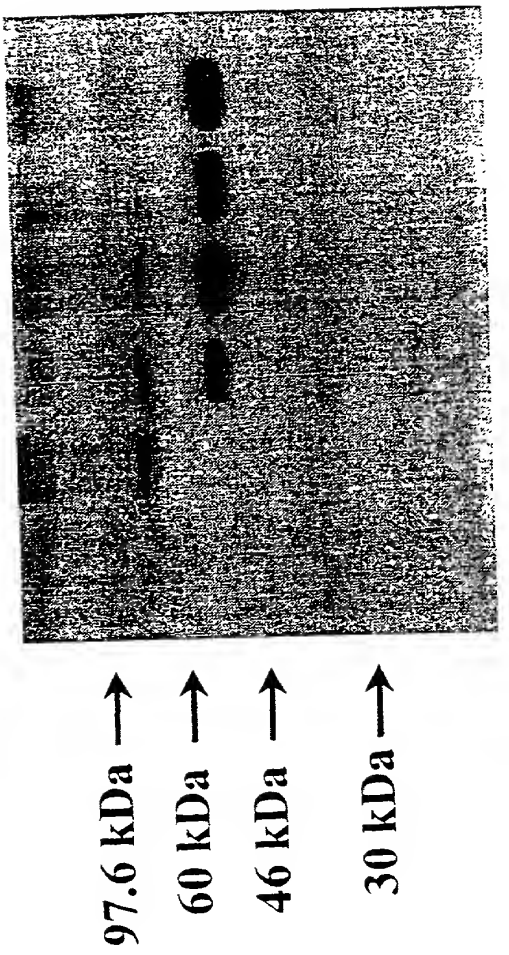
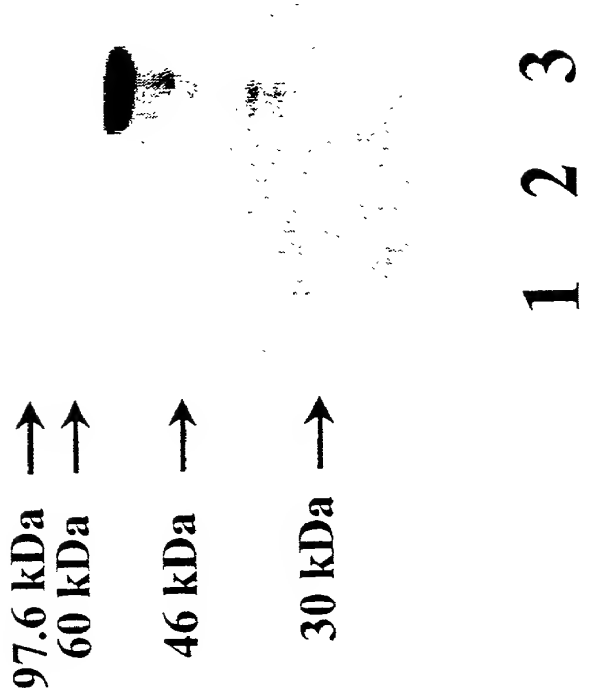


FIGURE 20



The lanes are:
1. H5cells
2. H5 + wild type virus
3. H5 + recombinant virus

FIGURE 21

The lanes are:
1. H5cells
2. H5 + wild type virus
3. H5 + recombinant virus

FIGURE 22

The lanes are:

1. ^{125}I-Prothrombin (PT)
2. PT +RVV + Factor X
3. PT +H5
4. PT + H5-RV
5. PT + purified protein (3 µg)